

BJLIK, N.I., inzh.; SHENKMAN, L.Z., inzh.

Determination of power losses in transmission lines feeding
traction loads and consumers. Trudy MIIT no.199:219-225 '65.
(MIRA 18:8)

SEMENOV, P.P., kand.med.nauk; LISITSINA, Z.S.; CHUDINOVA, R.P.;
SHENKMAN, M.I.

Treatment with phenoxyethylpenicillin of acute inflammatory
diseases of the urinary tract. Urologiia 25 no.1:17-21 Ja-F
'60. (MIRA 15:6)

1. Iz urologicheskogo otdeleniya (zav. - kand.med.nauk
P.P. Semenov) 13-go venerologicheskogo dispansera Leningrada.
(PENICILLIN)
(URINARY ORGANS--DISEASES)

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CIA-RDP86-00513R001549110006-4

SHENKMAN, S. (stantsiya Veshenskaya)

At a stanitsa on the Don. Zdorov'e 6 no.9:26 S '60. (MIRA 13:8)
(VESHENSKAYA-SPORTS) (SHOLOKHOV, MIKHAIL ALEKSANDROVICH)

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CIA-RDP86-00513R001549110006-4"

SHENKMAN, S...

Zealous masters. Za rul. 21 no.185 Ja '63. (MIRA 16:1)
(Moscow--Transportation, Automotive)

15-1957-10-13904

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,
pp 75-76 (USSR)

AUTHORS: Blagonravov, V. A., Shenkman Ya. D.

TITLE: Relations Among the Granitoidal Rocks in the Lower
Course of the Kaa-Khem River (Eastern Tuva) [O sootno-
shenii mezhdu granitoidami nizhnego techeniya r. Kaa-
Khem (Vostochnaya Tuva)]

PERIODICAL: Tr. Vses. aerogeol. tresta, 1956, Nr 2, pp 88-93

ABSTRACT: In the region of the village of Znamenka, along the
lower course of the Kaa-Khem River (Malyy Yenisey), the
oldest rocks are Lower Cambrian and intensely deformed.
They are greenstone porphyrites, quartz-plagioclase
porphyries, marmorized limestones and, in subordinate
amounts, quartzites. Lower Devonian (?) effusive-tuf-
faceous beds lie unconformably on this sequence and are
presumably by Middle Devonian clastic red beds. The
intrusive rocks of the region form two groups: 1)
granodiorites, quartz diorites, diorites, gabbros, and

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pyroxenites; and 2) granites (pink), granite porphyries, and granodiorite porphyries. Granodiorites and quartz diorites are the most abundant of the first group; tonalite-type rocks are distinguished among the quartz diorites (high biotite and hornblende content). All the rocks in the first group are related by gradual transitions and show local alternations of one variety with another. The gabbronorites, which are typical hybrid rocks, form schlieren segregations in the diorites and gabbro-diorites, and commonly occur at contacts with limestones and effusives of basic and intermediate compositions. The group as a whole corresponds to the "Tannuol'skiy" complex of V. A. Kuznetsov and G. V. Pinus (Dokl. AN SSSR, vol 65, Nr 1, 1949) or the "Argolikskiy" complex of L. N. Leont'yev (Dokl. AN SSSR, vol 91, Nr 5, 1953); the author proposes the preservation of term "Tannuol'skiy." Pink granitoidal rocks with both abyssal and hypabyssal features form the second group: granites, granite porphyries, and granodiorite porphyries. The abyssal varieties generally occur in the central parts of the masses, the hypo-

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Relations Among the Granitoidal Rocks in the Lower Course of the Kaa-Khem River

byssal about the peripheries. The author compares these rocks, in age relations and in composition, with the "Late Caledonian" complex of V. A. Kuznetsov and G. V. Pinus. In both, intrusions of different ages are characterized by the following features: 1) young granites form small bodies, commonly where Lower Devonian rocks occur; 2) the structural pattern of the masses, which the rocks of the first group share with their host rocks, is in contrast with the structureless masses of the rocks of the second group; 3) the many varieties in the first group, produced by assimilation and hybridization, also contrast with the relatively homogeneous composition of the second group; 4) there is a difference in the intensity of endogene and exogene changes; and 5) in the group of pink granites the alkali content is high and the amount of CaO, Al₂O₃, Fe₂O₃, FeO, and MgO is low.

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S. P. Bryzgalina

AUTHOR:

None Given

SOV-5-58-3-10/39

TITLE:

Chronicle. Activities of the Geological Sections of the Moscow Naturalist Society, Petrographical Section (Khronika. O deyatel'nosti geologicheskikh sektsiy Moskovskogo obshchestva ispytateley prirody, Petrograficheskaya sektsiya)

PERIODICAL:

Byulleten' Moskovskogo obshchestva ispytateley prirody, Otdel geologicheskiy, 1958, Nr 3, pp 135-137 (USSR)

ABSTRACT:

On 6 February 1958, at a meeting under the chairmanship of Ye.A. Kuznetsov (secretary T.L. Nikol'skaya), Ya.D. Shenkman lectured "Several Paleozoic Intrusions of Eastern Tuva". On February 13, 1958, Ye.A. Kuznetsov gave a review of foreign literature pertaining to petrography. Questions on the submitted themes were asked by: Ya.D. Shenkman, Ye.K. Markhinin, and T.M. Dembo. A.M. Daminova lectured on the importance of the study of field spar in petrographical work. On February 20, a manual by Ye.A. Kuznetsov, entitled "Petrography of Magmatic and Metamorphic Rocks", was discussed by the following geologists: S.D. Chetverikov, V.I. Chernov, T.L. Nikol'skaya, V.S. Koptev-Dvornikov and T.M. Dembo. On February 27 E.I. Tikhomirova, on behalf of collective authors L.I. Bloknina, V.K. Zaravayayeva, I.S. Krasivskaya, M.A. Petrova, E.I. Tikhomirova, and Ye.B. Yakovleva, lectured on

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SCV-5-58-3-10/39

Chronicle. Activities of the Geological Sections of the Moscow Naturalist Society, Petrographical Section

"The problem of Classification of Clastic Volcanogene and Tuffogene-Sedimentary Rocks". Questions pertaining this subject were asked by the following geologists: S.K. Onikienko, Ye.K. Markhinin, O.M. Kanfel', A.D. Rakcheyev, T.I. Frolova, A.M. Daminova, T.Ya. Goncharova, M.N. Shcherbakova, Afonin, G.B. Rudnik. On March 6, 1958, Ye.K. Markhinin lectured on "The History of Volcanism on the Kunashir Island", which was discussed by: S.K. Onikienko, T.M. Dembo, A.D. Rakcheyev, V.S. Koptev-Dvornikov, V.N. Pavlinov, Ye.A. Kuznetsov. Ye.N. Odintsova, Doktorant of the Institut Biokhimii AN SSSR (Biochemical Institute AS USSR), drew attention to the fact that plants of this region had an extremely high content of sugar. Following the suggestion made by T.M. Dembo to discuss the question of indexes of mountain rocks in geologic mapping at the VSEGEI, it was moved to delegate V.Ye. Gendler to take up this problem with MGRI, MITsMIZ and VAGT. On March 13, 1958, O.S. Polkovnikov delivered a lecture on "Petrographic Features of Multi-colored Devonian Massifs in the Betpak-Dala Desert". The

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SOV-5-58-3-10/39

Chronicle. Activities of the Geological Sections of the Moscow Naturalist Society, Petrographical Section

following geologists participated at the discussion: M.A. Dmitriev, A.D. Rakcheyev, Ye.K. Markhinin, V.I. Chernov, A.M. Daminova, T.L. Nikol'skaya, V.Ye. Gandler, V.I. Chernov, T.M. Dembo, Ye.A. Kuznetsov and V.S. Koptev-Dvornikov. On March 20, 1958, M.G. Lomize lectured on "New Data on Jurassic Volcanism of the North-Western Caucasus". Questions pertaining to this report were asked by: Ye.B. Yakovleva, Ye.Ye. Milanovskiy, A.D. Rakcheyev, V.S. Koptev-Dvornikov. On March 27, 1958, N.A. Sirin lectured on "Recent Magmatism of the Urals". On the discussion that followed, questions were asked by the following geologists: T.L. Nikol'skaya, A.D. Rakcheyev, V.N. Gavrilova, Ye.K. Markhinin, and Ye.A. Kuznetsov.

1. Geology--USSR 2. Scientific personnel--Performance 3. Scientific reports--USSR

Card 3/3

AUTHOR: Snenkman, Ya.D. 30V-5-58-3-15/39

TITLE: Several Paleozoic Intrusions of the Eastern Tuva (O nekotorykh paleozoyskikh intruziyakh vostochnoy Tuvy)

PERIODICAL: Byulleten' Moskovskogo obshchestva ispytateley prirody, Otdel geologicheskiy, 1958, Nr 3, pp 144-145 (USSR)

ABSTRACT: Among the intrusions of Eastern Tuva, the Lower Paleozoic Pre-Ordovician, Pre-Silurian and Lower Devonian intrusions predominate. The author gives a brief description of the distribution, the petrographical structure, and the mineral composition of intrusive rock formations in this region.

1. Geology--USSR 2. Rocks--Properties 3. Minerals--Distribution

Card 1/1

SHENKMAN, Ya.D.

Stages in the formation of certain intrusions in eastern Tuva. Biul.
MOIP. Otd. geol. 35 no. 4:14-142 Jl-Ag '60. (MIRA 14:4)
(Tuva Autonomous Province--Rocks, Igneous)

SHENKMAN, Ya.D.

Pre-Cambrian intrusions in the Sangilen Highland (eastern Tuva).
Geol.i geofiz. no.1:55-63 '62. (MIRA 15:4)

1. Vsesoyuznyy aerogeologicheskiy trest, Moskva.
(Sangilen ridge—Rocks, Igneous)

SHANKMAN, Yuliya

Phases of emplacement of Paleozoic intrusions of eastern Tuva.
Geol. i geofiz. no.11:134-136 '64. (MIRA 18:4)

I. Aerogeologicheskaya ekspeditsiya No.2, Moskva.

OSTRETSOV, A.Ya., inzh., SHENKMAN, Yu.B., inzh.

Economy of electric power consumption in shipbuilding. Sudostroenie
no.7:58-59 Jl '60. (MIRA 13:7)
(Shipbuilding) (Electric power)

.....

S. M. Kuznetsov, Ph. D. - "Methods of teaching the German language in connection with Bashkirian at the initial stage (the fifth class)". Ufa, 1974. Academy of Pedagogical Science iSFSR, Sci Res Inst of teaching Methods. (Dissertation for the Degree of Candidate of Pedagogical Sciences.)

Sc: Kazanetsa Letopis', no. 43, 22 October 1975. Moscow

KRIVORUCHENKO, Vladimir Vladimirovich[deceased]; KOROBOV, Mikhail Aleksandrovich; BELYAYEV, A.I., retsenzent; KALUZHSKIY, N.A., inzh., retsenzent; SHENKOV, V.V., inzh., retsenzent; OL'KHOV, I.I., inzh., red.; EL'KIND, L.M., red. izd-va; ISLENT'YEVA, P.G., tekhn. red.

[Heat and power balance of aluminum and magnesium electrolyzers] Teplovye i energeticheskie balansy aliuminievykh i magnievykh elektrolizerov. Moskva, Metallurgizdat, 1963.
(MIRA 16:4)
319 p.

1. Chlen-korrespondent Akademii nauk SSSR (for Belyayev).
(Electrometallurgy) (Heat—Transmission)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110006-4

SHENNIKOV, A. P.

DECEASED

1964

c/ 1963

BOTANY

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CIA-RDP86-00513R001549110006-4"

SHENNIKOV, S. T. (Dr. of Vet. Scis.); PETROVSKAYA, Ye. A.

"The influence of the resistance of the organism of turkeys to falling ill with thrush."

SO: Vet. 27 (2) 1950, p. 26

Phys

2779. Polarographic determination of concentration of weak acids.
I. A. Korshunov, Z. B. Kurnikova, and M. K. Schemikova (*J. Anal. Chem., USSR*, 1951, 6, 96-100).—With most weak acids a 15- to 20-fold increase in concn. shifts the half-wave potential towards more negative values by 10-15 mv., but with succinic acid ($E_{1/2} = -1.80$ v. *versus* the saturated calomel electrode) no change occurs with concn. In neutral Li or K salts, and in tetramethylammonium iodide, the H⁺ diffusion current occurs between -1.6 and -1.8 v., for most org. acids, and it is \propto concn. ($> 10^{-3}$ to 10^{-4} M.). If the first diffusion const. is $< 10^{-6}$ no H⁺ diffusion current occurs. Results for a no. of weak acids show that if K_d is the diffusion current const. (diffusion current in μ amp./acid concn. in millimol. per l.) and pK_1 is the negative logarithm of the first dissociation const. of the acid, then $K_d = 5.25 - 0.725pK_1$. G. S. SMITH.
[Handwritten signature]

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110006-4

SHENNING-PARSHINA, M.M., kand.med.nauk (Moskva)

"Women's diseases and their prevention" by S.D. Astrinskii.
Fol'd. i aknsh. 25 no.3:61-62 Mr '60. (MIRA 13:6)
(WOMEN--DISEASES) (ASTRINSKII, S.D.)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110006-4"

SHENKER, D.I.

Vasomotor labytinthine ischenia. Zhur. ush., nos. i gorl. bol.
23 no.4:45-50 Jl-Ag'63. (MIRA 16:10)

1. Iz otorinolaringologicheskogo otdeleniya (nauchnyy rukovoditel'
- prof. K.A.Drennova) klinicheskoy bol'nitsy neotlozhnoy pomoshchi,
g. Tashkent).

(LABYRINTH (EAR) — DISEASES)
(LABYRINTH (EAR) — BLOOD SUPPLY)

A. A. CHENG GIN

"Engineering Calculation of Traveling-Wave Tubes" from Annotations
of Works Completed in 1955 at the State Union Sci. Res. Inst.; Min. of Radio Engineering
Ind.

So: B-3,080,964

SHENROK, A. N.

Operation of ship routes and emergency harbors in the Kuibyshev Reservoir. Rech.transp. 18 no.9:48 S '59. (MIRA 13:2)

1. Glavnnyy inzhener Kazanskogo tekhnicheskogo uchastka puti.
(Kuibyshev Reservoir--Inland navigation)

SHENSHLEVICH, L.

Effect of the temperature of defecation and of the recirculation
of the juice - mud mixture on the quality of the juice (from
"International Sugar Journal," p.339, 1959). Sakh.prom. 34
no.2:76 F '60.
(Sugar manufacture)

SHENSHELEVICH, L.

Dust collector of sugar dust (from "International Sugar Journal." p350. 1959). Sakh.prom. 34 no.2:76 F '60.
(MIRA 13:5)

(Great Britain--Dust collectors)

ACC NR: A7004019

SHENSHOV, A. N. (Murom)

SOURCE CODE: UR/0140/66/000/004/0150/0152

"Converging Interpolation Process"

Kazan', Izvestiya VUZ - Matematika (Herald of the Higher Educational Institutions - Mathematics), No 4 (53), 1966, pp 150-152

Abstract: A triangular matrix of interpolation points as well as an interpolation polynomial for the function $f(x)$ are given in the segment $[-1, 1]$. It is shown that the interpolation process $L_n(f_n, x)$ converges uniformly to the function $f(x)$ in the segment $[-1, 1]$. Another triangular matrix is given for which a sequence of polynomials converges uniformly to the function $f(x)$ in the segment $[-1, 1]$. Orig. art. has: 8 formulas. JPRS: 38,417

ORG: none

TOPIC TAGS: polynomial, mathematic matrix, interpolation

SUB CODE: 12

Card 1/1

UDC: 517.512

0929 1735

SHEINSHEV, L.V. (Perm')

Common elements of thought in the processes of mastering
mathematics and a foreign language. Vop. psichol. 6 no.4:
9-22 Jl-Ag '60. (MIRA 13:9)

(Learning, Psychology of)
(Language and languages--Study and teaching)
(Mathematics--Study and teaching)

ZEMLYANUKHIN, A.A.; SHENSHINA, S.V.

Study of sex and its changes in hemp. Fiziol. rast. 8 no.2:213-219 '60.
(MIRA 14:3)

1. Katedra darvinizma i fiziologii rasteniy Voronezhskogo universiteta.
(Hemp) (Plants, Sex in)

SCHENSNOVICH, V. D.

SEMENOVA, Nina Yevgen'yevna; GEFTER, Viktoria Arnol'dovna; SCHENSNOVICH,
V.B., redaktor; SACHEVA, A.I., tekhnicheskij redaktor.

[Helminthiasis in man] Gel'mintozy cheloveka. Moskva, Gos. izd-vo
med. lit-ry, 1954. 138 p.
(MLRA 8:2)
(Worms, Intestinal and parasitic)

SHENSNOVICH, V. B. (MOSCOW)

"On the host-parasite relationships in amoebiasis."

Report presented at the 13th Annual meeting and 1st International Conference
of Society of Protozoologists, Prague, 22-31 Aug 61

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110006-4

TSARSKI, F., inzh.; KRAPCHEV, B., inzh.; TORTOMANOV, Ant.; SHENTOV, L.

Reconditioning of worn-out parts by electrolytic chromium plating. Elektroenergiia 12 no.11/12:49-51 N-D '61.

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CIA-RDP86-00513R001549110006-4"

SHENTSIK, I.D.

Calculation of the basic parameters of the flash flood of
July 7, 1963, in the Issyk River. Trudy KazNIGMI no.22:113-
126 '65.
(MIRA 18:11)

DANYUSHEVSKIY, A.S.; PARLASHKEVICH, N.Ya.; FROLOVA, Z.N.; SHENTSIS, I.S.

Automatic control of the kinetics of polyvinylchloride decomposition.
(MIRA 14:2)
Plast.massy no.2:69-70 '61.
(Ethylene) (Plastics—Testing)

DOLGUSHEVSKIY, F.G., dots.; KOZLOV, V.S., dots.; PANCHENKO, V.P., as-sistent; POLUSHIN, P.I., starshiy prepodavatel'; POSTNIKOVA, G.V., kand. ekon. nauk; ERLIKH, Ya.M., dots.; SHENTSIS, Ye.M., red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Statistical study of labor productivity and the uncovering of its potentials in agriculture] Nekotorye voprosy statisticheskogo izuchenia i vyavleniya rezervov proizvoditel'nosti truda v sel'skom khoziaistve. [By] F.G. Dolgushevskii i dr. Moskva, Gosstat-izdat, 1962. 189 p.

(MIRA 16:1)

1. Prepodavateli Odesskogo kreditno-ekonomiceskogo instituta
(for all except Shentsis, Il'yushenkova).
(Odessa Province—Agriculture—Labor productivity)

SNEKHOV, Boris Moiseyevich; SHENTSIS, Ye.M., red.

[Statistics and planning] Statistika i planirovanie.
2. dop. i perer. izd. Moskva, Statistika, 1964. 102 p.
(MIRA 17:11)

ROTSHTEYN, Aleksandr Isaakovich; SHENTSIS, Ye.M., red.

[Studies on the industrial statistics of the U.S.S.R.]
Ocherki promyshlennoi statistiki SSSR. Moskva, Izd-vo
"Statistika," 1964. 517 p. (MIRA 17:5)

RESHETILSKIY, Konstantin Valerianovich; SHCHETINS, Ya.I., red.

[The system of material balances; material balances in statistics] Sistema material'nykh balansov; material'-nye balansy v statistike. Moscow, Statistika, 1965. 63 p.
(MIRA 18:2)

TRUDOVYEV, Nikolay Vasil'yevich; SHENTSOV, Ye.M., red.

[Statistics of the cost of agricultural production]
Statistika sebestoimosti produktsii sel'skogo kho-
ziaistva, Moskva, Statistika, 1965. 118 p.
(KIRA 18:4)

SUSLOV, Ivan Petrovich; SHENTSIK, Ye.M., red.

[Industrial statistics in V.I.Lenin's works] Statistika
promyshlennosti v rabotakh V.I.Lenina. Moskva, Statistika,
(MIRA 18:5)
1965. 116 p.

SHMETYABINA, S. D., Cand Med Sci (diss) -- "Clinical manifestations and aspects of muscular insufficiency and disorders of venous circulation in hypertension patients". Khar'kov, 1960. 16 pp (Khar'kov State Med Inst), 200 copies (Z, No 12, 1960, 131)

SHENTYABINA, S.D., kand. med. nauk

Oxygen deficiency in hypertension according to oxyhemometric
data. Vrach delo no.2: 57-60 F'64 (MIRA 17:4)

1. Kafedra vnutrennikh bolezney (zav. - prof. P.F. Frolov)
Khar'kovskogo meditsinskogo stomatologicheskogo instituta.

SHENTYAKOV, S. P.

Ustroistvo i remont vagonov. [Maintenance and repair of cars]. Izd. 2., ispr. i dop. [F. A. Lapshinym i V. I. Grobovym]. Dopushcheno v kachestve uchebnika dl ia uchasp-ikhsia zhel-dor. uchilishch. Moskva, Gos. transp. zhel-dor, izd-vo, 1950. 330 p. illus.

DLC: TF375.S45 1950

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress
Reference Department, Washington, 1952, Unclassified.

SHEN'TYAKOV, Vladimir Alekseyevich; KAMENSKAYA, Ye.A., red.

[Freshwater a.c.-powered trawling] Presnovodnyi
elektrotralovyi lov ryby s primeneniem peremennogo
toka. Moskva, Izd-vo "Fishchevaia promyshlennost',"
1964. 80 p. (MIRA 17:7)

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CIA-RDP86-00513R001549110006-4

V. V. LEBEDEV AND V. V. KALINOV

"PREPARATION OF DUCTILE ZIRCONIUM BY FUSED SALT ELECTROLYSIS"

by A. N. Guren, V. V. Lebedev

Report presented at 1nd CI: Atoms-for-Peace Conference, Geneva, 9-13 Sept 1958

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CIA-RDP86-00513R001549110006-4"

SHENTYAKOV, V.A.

Reactions of fishes in the electric field of an alternating current.
Trudy Inst. biol. vodokhran. no.1:309-323 '59. (MIRA 13:2)
(Electric fishing)

SHENTYAKOV, V.A.

Parameters of the reaction of fishes in alternating current electric fields. Trudy Inst. biol. vnutr. vod no.6:224-229 '63.

(MIRA 18:1)

S. S. ENPYAKOV, V.A.; MAYERLIN, M.R.

Use of alternating current electric fields in trawl fishing.
Trudy Inst. biol. vedokhran. no.2:128-147 '59.
(MIRA 13:5)
(Electric fishing) (Trawls and trawling)

SHEV'yAKOV, V.V.

21(4) PHASE I BOOK EXPLOITATION Sov/2714
International Conference on the Peaceful Uses of Atomic Energy - 2nd,

Geneva, 1958

Doblyadovitch uchenyyi, "Problemy Svoystv i Reaktorov metallov".
(Reports of Soviet Scientists: Nuclear Fuel and Reactor Metals) Moscow,
Akademiya, 1959. 670 p. (Series: It's: Tracts, vol. 3. 6,000 -printen
printed).

Ms. (title page); A.A. Bochvar, Academician, I.P. Vinogradov, Academician,
V.D. Yanilyanov, Corresponding Member, USSR Academy of Sciences, and
A.P. Zaitsev, Doctor of Technical Sciences; Ed. (inside book); V.V.
Paravayev and G.M. Pchelintseva; Tech. Ed.: Z.I. Kaseil'.

PURPOSE: This volume is intended for scientists, engineers, physicians, and
biologists working in the production and peaceful application of atomic
energy; for professors and students of schools of
higher technical education where the subject is taught; and for people
interested in atomic science and technology.

CONTENTS: This is volume 3 of a 7-volume set of reports on atomic energy,
presented by Soviet scientists at the Second International Conference on the
Peaceful Uses of Atomic Energy held in Geneva from September 1 to 13, 1958.
Volume 3 consists of two parts. The first part, edited by A.I. Zubov, is
devoted to scientific prospecting, concentration, and processing of nuclear
source material. The second part, edited by G.I. Izverin, includes 27 reports
on smelting, metallurgy, processing technology of nuclear fuels and
reactor metals, and neutron irradiation effects on metals. The titles of the
individual papers in most cases correspond word with word with those in the
official English language edition on the Conference proceedings. See
Box/2001 for the titles of the other volumes of this set.

Box/2001

Bochvar, A.A., Yu. Kurnitskii, and V.S. Semenov. Self-diffusion
of Uranium in the Gamma-phase (Report No. 2505).
370

Bochvar, A.A., S.P. Knoboyarskii, V.I. Entsyte, T.S. Moshnikova,
and I.E. Gabocheva. Plutonium Interaction With Other Metals in
Connection with Their Arrangement in Mendeleev's Periodic Table
(Report No. 2197).
376

Knoboyarskii, S.P., A.S. Zaretskii, B.M. Lur'e, Yu.I. Schurikov,
I.F. Chabotar, N. V. Bobrov, D.B. Yagodina, G.I. Shul'dov, and I.A.
Zinov'eva. Physical Properties of Uranium and Plutonium and Their
Alloys (Report No. 2290).
396

Obreim, A.M., V.I. Smirnov, G.O. Abashev, E.B. Sterzenev,
and J.J. Stepin. Plastic
Electrolytic Production by the Electrolysis of Mixed Salts (Report
No. 2087).
Card 7/11
424

SHENTYAKOVA, (Konovalova), L.F.

Some characteristics of the growth of perch. Trudy Inst. biol.
vodokhran. no.1:298-308 '59. (MIRA 13:2)
(Perch) (Morphology (Animals))

SHENTYAKOVA, L.F.

Use of Chebyshev's method in reconstructing the growth of fishes from scales. Trudy Inst.biol.vodokhran. no.4:281-293 '61. (MIRA 14:10)
(Scales (Fishes)) (Ichthyological research)

SHENTYAKOVA, L. F.

Rosa Lee phenomenon. Vop. ikht. 2 no.3:480-486 '62.
(MIRA 15:10)

I. Institut biologii vodokhranilishch AN SSSR, Borok, Yaroslavskoy oblasti.

(Fishes) (Growth)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110006-4

• 11.4.1964. 1964.

• *Chlorocorus*. Flavins and nongreenish or pale greenish patches of growth in brown, roach and pike perch under water-lily-like conditions. Thin. mat. meted. v. biol. n. f. 1964.

• 11.4.1964. *Microgilia vnutrennikh vod*. N. f. 1964.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110006-4"

28-58-1-17/34

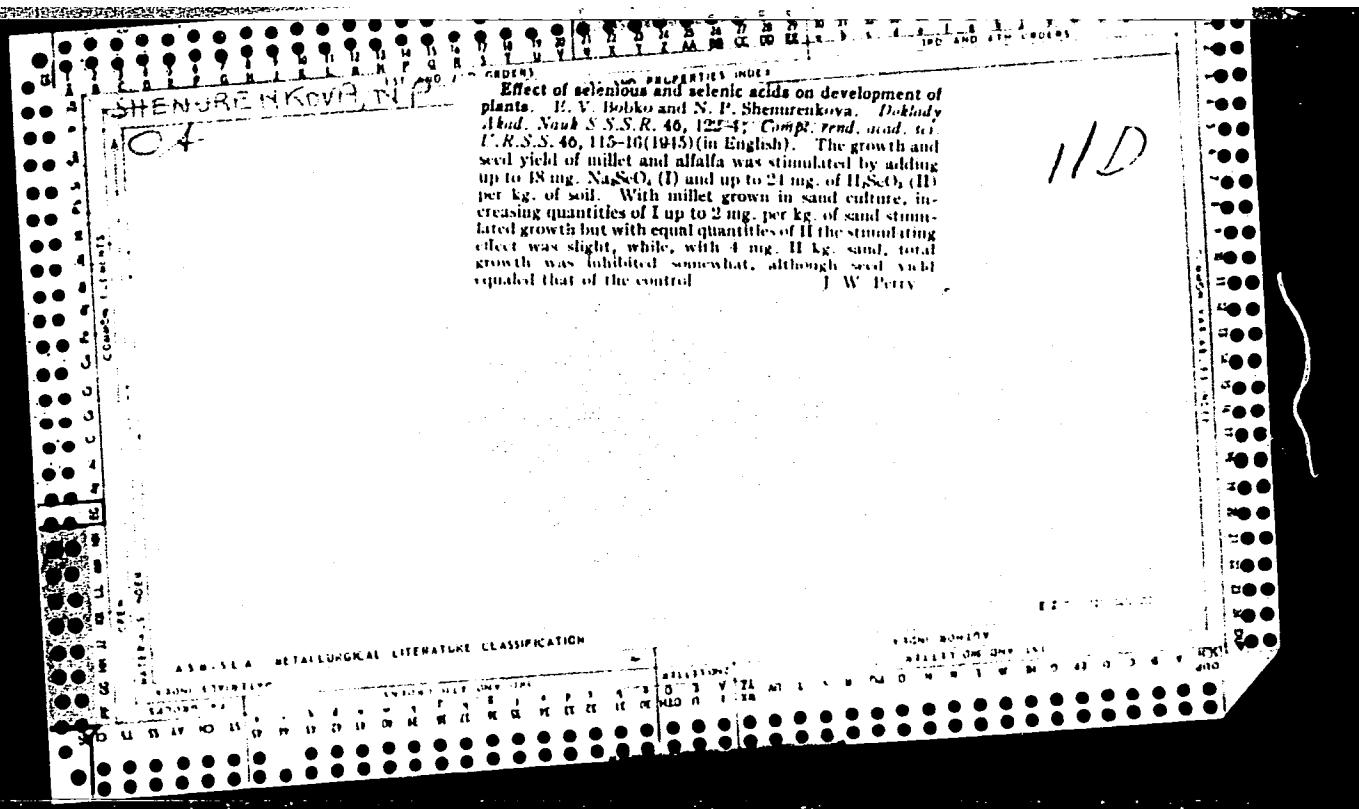
AUTHORS: Sokolovskaya, F.M., Candidate of Technical Sciences, and
Shentyakova, L.Z., Engineer

TITLE: Driving V-Belts (Privodnyye klinovyye remni)

PERIODICAL: Standartizatsiya, 1958, # 1, pp 45-46 (USSR)

ABSTRACT: The article gives detailed information on the new "GOST 1284-57"-standard for V-belts, which will be in force from 1 October 1958, and replaces the "GOST 1284-45". The V-belt dimensions, as well as the dimensions, materials and machining methods for the pulleys, are chosen in accordance with ISO/TC 41 recommendations. The length gradations of belts correspond to the series R40 of the preference numbers series system. The belt tension, 12 kg/cm² for belts working on small diameter pulleys, and 15 kg/cm², for belts working on large pulleys, has been made the standard, as a result of investigations made by the Scientific Research Institute of the Rubber Industry, as well as in accordance with ISO/TC 41 recommendations and the latest foreign standards.

Card 1/2



SHENYABSKAYA, Ye.A.; KUZYAKOV, Yu.Ya.; TATEVSKIY, V.M.

New analysis of the oscillatory structure of the spectrum of titanium monochloride in the region of 4200 Å. Opt. i spektr. 12 no.3:
359-363 Mr '62. (MIRA 15:3)
(Titanium chloride--Spectra)

S/051/63/014/002/023/026
E039/E120

AUTHORS: Gurvich, L.V., and Shenyavskaya, Ye.A.

TITLE: The electron spectrum of scandium monofluoride

PERIODICAL: Optika i spektroskopiya, v.14, no.2, 1963, 307-308

TEXT: This investigation was carried out in order to provide information on the spectra of diatomic compounds of elements of subgroup IIIb with halogens. A discharge tube containing ScF_3 and metallic Sc, with He and A as a discharge carrier, was used as a light source. Spectra were obtained using an ИСП-28 (ISP-28) spectrograph and the optimum conditions were: cathode (Armco iron) 6 mm diameter, 30 mm long, 410 V, 350 mA, He at a pressure of 6 mm Hg. In the region of 2850 Å a group of bands was obtained which had not previously been observed. Their intensity was too low for analysis and they were overlapped by iron lines. More satisfactory results were obtained using a quartz tube with a 10 mm diameter capillary 150 mm long and heated externally by a nichrome helix. The tube contained a mixture of Sc and ScF_3 and was sleeved with platinum in order to prevent the fluoride reacting with the quartz. Optimum conditions were: He and A at 2 mm

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The electron spectrum of scandium...

S/051/63/014/002/023/026
E039/E120

pressure; 1.2 - 1.3 amp at 2.4 - 3 kV. The ScF spectrum in the range 2550-3000 Å was observed in the second order using a ΔΦC-8 (DFS-8). Four groups of bands were observed in the violet and one band system in the red. Greatest intensity was at about 2880 Å. An analysis of the vibrational structure of the spectra was carried out. Calculated values of the molecular constants for ScF are:

$$\omega_e'' = 734.3; \quad \omega_e'' x_e'' = 3.5; \quad e = 35013.4; \quad \omega_e' = 582.6;$$

$\omega_e' x_e' = 6.1 \text{ cm}^{-1}$. It is shown that the energy of dissociation of ScF is ~4.5 to 6 ev.
There is 1 table.

SUBMITTED: July 30, 1962

Card 2/2

ANISIMOV, I.I.; SHENYANSKIY, K.A.; RUDIK, G.T.

Specific prophylaxis of brucellosis in cattle on collective
and state farms in Stalino Province. Veterinariia 32 no.5:
25-29 My '55.
(MLRA 8:?)

1. Nachal'nik vetetdela Stalinskoj oblasti (for Anisimov).
2. Direktor mezhsevkhoznej laboratorii (for Shenyanskiy).
3. Starshiy vetrach sevkhoza imeni Oktiabr'skoy revolyutsii
(for Rudik).
(STALINO PROVINCE--BRUCELLOSIS IN CATTLE--PREVENTIVE INOCULA-
TION)

SHENYAVSKAYA, Ye.A.; GURVICH, L.W.; MAL'TSEV, A.A.

Electronic spectrum of the molecule LaF. Vest. Mosk. un. Ser.
2:Khim. 20 no.4:10-13 Jl-Ag '65. (MIRA 18:10)

1. Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo
universiteta.

9.6000(1040,1139)

31431
S/188/61/000/006/003/007
B108/B138

AUTHORS: Bukhovtsev, B. B., Ordanovich, A. Ye., Shenyavskiy, L. A.,
Shmal'gauzen, V. I.

TITLE: Measurement of the probability distribution of the instantaneous values of signals by means of amplitude discriminators

PERIODICAL: Moscow Universitet. Vestnik. Seriya III. Fizika,
astronomiya, no. 6, 1961, 25 - 31

TEXT: The principle of operation and the designs of two-channel and multi-channel amplitude discriminators are presented. Determination of the probability distribution by an amplitude discriminator is based on measuring the time during which the signal in question does not exceed a given level. The discriminator trims the signal to the desired level and delivers a certain impulse for every section of the signal that lies under the set level. Subsequently, the impulses are time-averaged by a separate device. Fig. 3 shows a 16-channel amplitude discriminator with a threshold given by $U_{n+1/2} = \Delta U(n + 1/2)$ where

Card 1/3

Measurement of the probability...

S/188/61/0007006/003/007
31131
B108/B138

$n = -8, -7, \dots, -1, 0, +1, \dots, +6, +7$. The instruments $\Pi_{-7\frac{1}{2}}, \dots, \Pi_{7\frac{1}{2}}$ indicate the integral probability distribution if the switches Π_4 are in position (1), and indicate the differential probability distribution if the switches are in position (2). The described device allows determination of the probability distribution at 16 equidistant points that are symmetric about zero. Signals from the frequency range 50 to 10,000 cps may be investigated. The time of averaging may go down to 500 sec. The accuracy is 10%. A similar two-channel amplitude discriminator for the frequency range 0 - 2000 cps is also described. There are 6 figures and 4 Soviet references.

ASSOCIATION: Kafedra obshchey fiziki dlya mekhaniko-matematicheskogo f-ta
(Department of General Physics for the Mechanical and Mathematical Division)

SUBMITTED: March 15, 1961

Legend to Fig. 3: (A) discriminator, (B) time-averaging device,
(C) pre-amplifier, (D) peak detector. (1) int., (2) diff.
Card 2/3

28(1)

SOV/118-59-9-5/20

AUTHOR: Shenyayev Ya.L., Engineer

TITLE: Mechanization of Assembling Operations at the Plant
imeni Ordzhonikidze

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959,
Nr 9, pp 19-20 (USSR)

ABSTRACT: Manufacturing oil field equipment is a hard task, which
owing to lack of mechanization, requires the expendi-
ture of much labor. Furthermore, the majority of instal-
lations used in this industrial branch are of a large
size, weighing sometimes tens of tons. The process of
assembling cylindrical tanks from 4.68 to 9.10 hours de-
pending on their diameter; hence the importance of its
mechanization. However, it was not so easy to construct
a universal type of installation, permitting the assem-
bly of all sorts of tanks, diameters of which vary from
80 cm to 4 meters and more. Nevertheless, after long
research, the chief designer of the All-Union Planning-
Technological Institute (VPTI), Lekanov, in co-operation
with technologists and designers of the Plant imeni

Card 1/2

SHENZHE, P., kand.vet.nauk; SHELASHSKIY, V.A., vetvrach

Veterinary medicine in the Mongolian People's Republic. Veteri-
nariia 35 no.8:83-84 Ag '58. (MIRA 11:9)

1. Nachal'nik Veterinarnogo upravleniya Ministerstva sel'skogo
khozyaystva Mongol'skoy Narodnoy Respublikи (for Shenzhe).
(Mongolia--Veterinary medicine)

SHEPAREVICH, B. P.

Continuous extractor. I. Ya. Pomoznaya, B. P. Sheparevich, and G. S. Stepanov. U.S.S.R. 100,984, Aug. 20, 1957. The structural and operational details of a continuous operation extractor for essential oils are given.

M. Hougham

4
1(4E2c)

11

SHEPANEVA, P. P.

Vinyl chloride. S. S. Bobkov and P. P. Shepaneva, U.S. S. R. 66,688, July 31, 1946.
Inchlorethane is pyrolytically dehydrochlorinated at 480-520° over activated C acting
as catalyst. At this temp the catalyst does not lose its activity over a long period
of time. CH_2CHCl thus produced contains impurities which interfere with its poly-
merization. These impurities are removed by treating the chloride with concd. H_2SO_4
or with CL. M. H.

SHEPANOV, V.T.

"The organization of medical care for the population in the Far North."
Sovetskoye Zdravookhraneniye, Vol. 13, No 1, pp 21-25, 1954.

Translation-M-142, 27 Jan 1955.

ACC #: A160277

SOURCE CODE: UR/0058/66/ccc/004/DC60/DC61

AUTHOR: Rezayev, N. I.; Shepanyak, K.

TITLE: Investigation of intermolecular interaction in solutions with the aid of
Raman line contours

SOURCE: Ref. zh. fizika, Abs. 4D466

REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 169-179

TOPIC TAGS: molecular interaction, chloroform, organic solvent, Raman spectroscopy,
spectral line, line width, hydrogen bonding

ABSTRACT: The authors measured the frequency, integral intensity, and the width of several lines of chloroform and of solvents in the following systems: chloroform - dioxane, chloroform - ethyl ether, chloroform - ethyl alcohol, chloroform - acetone, and chloroform - phosphorus oxychloride. A specific variation of the shape and width of the valence vibration line of the CH-group of the chloroform is established in all of the investigated solutions. It is shown that an intermolecular interaction of the hydrogen-bonding type is realized in the investigated solutions between the CH-group of the chloroform and the molecule of the solvent. The energy of the intermolecular bond was measured for the chloroform - phosphorus oxychloride solution (2.0 ± 0.5 kcal/mole). [Translation of abstract]

SUB CODE: 20

Card 1/1 78

SHEPCHENKO, N. P.

Infrared heating. Vod. i san. tekhn. no. 5:31-32 My '60.
(MIRA 13:10)
(Infrared rays—Industrial applications)

SHEPCHENKO, N.P. (Novosibirsk)

Calculation of additional heat losses through walls based
on construction norms and regulations. Vod.i san.tekh.
no.8:13-14 Ag '60. (MIRA 13:7)
(Heating--Tables, calculations, etc.)

SHEPCHENKO, N.P., inzh. (Tashkent)

Choosing the capacity of a boiler supplying hot water. Vod. i
san. tekhn. no.1:28-29 Ja '62. (MIRA 15:6)
(Boilers) (Hot-water supply)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110006-4

SHEPCHENKO,N.P., inzh. (Tashkent)

Using steam as a heat carrier in the heating sections of con-
ditioners. Vod. i san. tekhn. no.8:16 Ag '64 (MIRA 18:1)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110006-4"

GENDIK, L. Ye.; SHEPCHENKO, Ya. D.

Glass Manufacture

Modernizing the switching of the tank furnace, Stek. i ker. 10, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

1. SHPEL', A. B.
2. USSR 600
4. Poultry
7. Leading poultry farm, Ptitsevodstvo, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

LITVINENKO, M.S.; TYUTYUNNIKOV, Yu.B.; SHEPEL', A.V.

Remarks concerning G.P.Govoroi's letter. Koks i khim. no.11:58-60
'61. (MIRA 15:1)

1. Ukrainskiy uglekhimicheskiy institut.
(Coke-oven gas)

TYUTYUNNIKOV, Yu.B.; VERSHINTINA, S.V.; VASHCHENKO, L.A.; SHEPELI, A.V.

Selecting oils for charges in order to increase benzene and
gas output. Koks i khim. no.16:43-45 '61. (MIRA 15:2)

1. Ukrainskiy uglekhimicheskiy institut.
(Benzene)
(Gases)

IMPERIAL, Gag, Industrie, elektromechanik

Lift-shears on ships of the type "Belomorskles." Mor. fio:
23 no. 12.26.26 D 163. (MIRA 17:5)

1. Reproduc "Belomorskles".

SHEPEL', G.G.

Cupola furnace manometer. Lit. proizv. no. 10:31 N-D '53.
(MLRA 6:12)
(Cupola-furnaces) (Manometer)

SHEPEL, G. G.

✓ Heat insulation of pouring ladles. G. G. Shepel. *Litvinov Proizvodstv 1956*, No. 4, 28. Inside of the ladle is lined with a 12-20 mm. thick layer of 85% coke breeze passing 1-3 mm. sieve, 10-15% fire clay, 10% sand, and 10% (of the whole) of water glass. After lining with this mixt. and drying, the ladle is coated with a conventional sand-clay mixt. In a 50-kg. ladle lined in this manner the temp. dropped in 3 min. from 1400 to 1340°, while in a conventionally lined ladle it was reduced from 1400° to 1290° during the same time.
I. D. Gut

1
Maze

Shepel, G. G.

Distr: 4E2c

19
Cupola operation with regulated gas discharge through the forehearth. G. G. Shepel. *Lileinoe Proizvodstvo* 1957, No. 5-8.—Iron temp. was easily raised to above 1450° by widening the slag hole of the forehearth to 2-3.5% of the cupola shaft area, enlarging the tapping hole from the cupola to the forehearth, and blowing air into this hole to allow the hot gases from the cupola to burn completely in the forehearth and to heat it. Individual features of this arrangement and its operation are minutely described. J. D. Cat

3

pp ok

SKEPEL', G.G.

Overheating cupola furnace cast iron. Lit. proizv. no.9:40-
41.S '60. (MIRA 13:9)
(Cupola furnaces) (Cast iron—Metallurgy)

SHEPEL', G.G.

Method of improving liquid cast iron by the ladle addition of steel
cuttings. Lit.proizv. no.3:45-46 Mr '62. (MIRA 15:3)
(Cast iron--Metallurgy)

SHEPEL', L., inzh.

Design of a central pressure-control valve. Avt. transp. 37 no.12:42
D '59. (MIRA 13:3)
(Motortrucks--Pneumatic equipment)

SHEPEL', L.T., inzh.; TERENT'YEV, S.G., inzh.; ANTONOV, P.I., inzh.

Application of automatic hard facing of rolls on the 750 mill.
Stal' 22 no.3:256-257 Mr '62. (MIRA 15:3)

1. Zavod "Krasnyy Oktyabr".
(Rolls (Iron mills)) (Hard facing)

GUR'YEV, A.V., kand.tekhn.nauk; GEDBERG, M.G.; TERENT'YEV, S.G., inzh.;
SHEPEL', L.T.

Causes of certain defects in the rolls used for cold rolling.
Stal' 23 no.5:438-440 My '63. (MIRA 16:5)

1. Zavod "Krasnyy Oktyabr!".
(Rolls (Iron mills)--Defects)

SHEPEL', M.A.

Mechanized gathering of the panicles of sweet sorgo. Mekh. sil'.
hosp. ll no.7:10-ll Jl '60. (MIRA 13:10)

1. Nikolayevskaya oblastnaya sel'skokhozyaystvennaya ispytatel'naya
stantsiya.
(Sorghum--Harvesting)

SHEPEL', M.M., inzh.-mekhanik

Apparatus for harvesting pulse crops. Makh. sil', hosp. 14
no. 6:10-11 Je '63. (MIRA 17:3)

1. ~~Specif. U.~~
2. ~~U770 (600)~~
4. Vacuum Tubes
7. Replacing the 1931 varnar tube with the LEIP tube. Radic, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

ZEL'MAN, A.S.; POLISHKIN, A.A.; SHEPEL', N.M.

For accurate fueling of diesel tractors. Mekh. sil'. hosp.
12 no. 9:19 S :61.
(MIRA 14:11)

1. Melitopol'skiy institut mekhanizatsii sel'skogo khozyaystva.
(Diesel engines--Fuel systems)

L 22914-66 EWT(m)/EWP(t) IJP(c) JD/JG
ACC NR: AP6009657 SOURCE CODE: UR/0181/66/008/003/0758/0766

AUTHORS: Rzhanov, A. V.; Svitashov, K. K.; Filatova, Ye. S.;
Shepel', V. M.

64

B

ORG: Institute of Semiconductors, SO AN SSSR, Novosibirsk (Institut
poluprovodnikov SO AN SSSR)

TITLE: Investigation of the surface photoconductivity of germanium

27

SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 758-766

TOPIC TAGS: germanium, photoconductivity, surface property, semi-
conductor conductivity, semiconductor impurity, forbidden band,
spectral energy distribution

ABSTRACT: This is a continuation of earlier work (FTT v. 3, 1557,
1961) dealing with impurity photoconductivity and the concentration
of photoactive surface defects. The present investigation was made
with p-type germanium doped with gallium, and having a specific
resistivity 20 -- 30 ohm cm and a carrier lifetime ~800 μ sec. The
samples were placed in a cryostat in vacuum 5×10^{-7} torr and exposed

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L 22914-66
ACC NR: AP6009657

to monochromatic radiation from the IKS-12 instrument. Measurements were made of the temperature and spectral dependences of the surface photoconductivity and also of its time lag. The impurity photoconductivity of a thin sample of germanium was measured with light modulated at 12 cps. No impurity photoconductivity was observed at room temperature and at dry ice temperature, but was observed at liquid nitrogen temperature (- 170°C), at which all other measurements were made. The results demonstrated once more the existence of a specific photoconductivity in germanium, connected with excitation of surface defects. The experimental reasons for this conclusion are presented in detail. The results also show that it is possible in principle to obtain data on the energy levels of the photoactive surface defects in the forbidden band of the semiconductor by analyzing the surface-photoconductivity spectra. Further data can be expected from these results if the surface potential can be determined by an independent method and the spectral resolution is improved. Work is continued in this direction. Orig. art. has: 12 figures, 3 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 20Jul65/ ORIG REF: 003/ OTH REF: 005

Card

2/2 87

ACC NR: AP6018576

SOURCE CODE: UR/0181/66/008/006/1955/1957

AUTHOR: Rzhanov, A. V.; Svitashov, K. K.; Shepel', V. M.

ORG: Institute of Physics of Semiconductors, SO AN SSSR, Novosibirsk (Institut fiziki poluprovodnikov SO AN SSSR)

TITLE: Influence of capture of nonequilibrium carriers by surface defects on the spectrum of the intrinsic photoconductivity of a thin sample of germanium

SOURCE: Fizika tverdogo tela, v. 8, no. 6, 1966, 1955-1957

TOPIC TAGS: photoconductivity, germanium semiconductor, capture cross section

ABSTRACT: The authors compare the pulses of intrinsic photoconductivity of thick and thin samples of p-type germanium at liquid-nitrogen temperature. The shape of the photoconductivity pulse of the thin sample exhibited singularities characteristic of the presence of traps. It is shown that the total change of the conductivity of the sample under the influence of the light consists of three factors (photoconductivity proper, change in surface conductivity as a result of change in carrier density, and change in surface conductivity as a result of change of the surface charge), and in the region of 1.64μ the contribution of the third process is comparable in magnitude with the contributions of the first two. The additional illumination, which normally eliminates adhesion of nonequilibrium carriers on the germanium surface at low temperatures, reduced the photoconductivity of the thin germanium to approximately the same value as that of thick germanium (5 vs. 0.5 mm) and eliminated the peak at 1.64μ .

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ACC NR: AP6018576

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549110006-4"

This is interpreted as being due to the presence of a group of surface capture centers near the boundary of the valence band. The additional illumination ionizes the surface capture centers and eliminates their influence both on the shape of the photoconductivity pulse and on the spectral dependence of the photoconductivity of the thin sample of germanium. The authors thank T. I. Kovalevskaya for producing the surface finish on the samples. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 04Jan66/ ORIG REF: 003

Card 2/2 MIL

SHVYDLY, V. V.

33918. Fiziki-Lauzyeatu Stalinskikh Pryemny 1949 Goda. Fizika V Shkolye, 1949,
No 5, C. 6-13, C. Portr.

See: Letopis' Zhurnal'nykh Statey, Vol. 46, Moskva, 1949.

SHEFEL', V. V.

RT-1053 (Review of soviet work in the fields of chemistry and chemical technology done by 1951 Stalin Prize laureates) Abridged from: Obzor rabot v oblasti khimii, smezhnykh s nej nauk i khimicheskoi tekhnologii, udostoennykh stalinskikh premii za 1951 g.
Uspekhi Khimii, 21(4): 369-378, 1952.

Shepel', V.V.

47-4-1/20

AUTHOR: Shepel', V.V., (Moscow)

TITLE: The 1957 Lenin Prizes in Physics and Technics (Leninskiye premii
1957 goda po fizike i tekhnike)

PERIODICAL: Fizika v shkole, 1957, No 4, pp 3-8 (USSR)

ABSTRACT: In 1956 the Central Committee of the Soviet Union's Communist Party and the Council of Ministers decided to resume the payment of Lenin prizes which were established in 1925 to promote outstanding works in science and technics. On 22 April 1957, the Committee on Lenin prizes published the names of the 1957 winners in physics, mathematics, biology, humanities and new technology. The article gives the names of only those persons who are of interest to teachers of physics. The first one is Yevgeniy Konstantinovich Zavoyskiy, Associate Member of the USSR Academy of Sciences, (AN SSSR) for the discovery, in 1944, and study of paramagnetic resonance. It ultimately led to a new scientific trend now called "Magnetic Radiospectroscopy" or "Magnetic Resonance". The article then describes the phenomenon, and states that on the basis of Zavoyskiy's works the American scientists Parcell and Bloch (Blokh) discovered the nuclear magnetic resonance for which they were awarded the Nobel prize in 1953. During the last years more than 600

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The 1957 Lenin Prizes in Physics and Technics

scientific works have been published which utilized the phenomenon of paramagnetic resonance in nuclear physics, chemistry and crystallography. - The Lenin prize for the construction of the first atomic power station in the USSR was awarded to D.I. Blokhintsev, Director of the International Institute of Nuclear Research, and to N.A. Dolezhal, A.K. Krasin and V.A. Malykh. The plant was put into operation in June 1954 and has a capacity of 5,000 kw; it is a steam-power plant. In 24 hours the plant uses 30 grams of uranium (an electric plant of this capacity would use 100 t of coal within the same period). The article contains some particulars in regard to the reactor and the safety measures applied. On the basis of the experience gained with this first power station, atomic plants of different types with capacities of 100,000 kw and more are being designed in the USSR. Calculations show that the cost of electric energy on these plants will not exceed that of coal plants. Bagrat Konstantinovich Ioannisiani, constructor of the State Optical Institute imeni S.I. Vavilov (Gosudarstvennyy opticheskij institut imeni S.I. Vavilov, was awarded the Lenin prize for developing and constructing new astronomical instruments. Among those constructed by him are: 1) a nebular spectrograph for photographing spectra of distant objects of a

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47-4-1/20

The 1957 Lenin Prizes in Physics and Technics

comparatively large angular size, for instance nebulae and interplanetary substances; 2) meniscus telescopes of the Maksutov system noted for their simplicity and reliability: with an aperture of 500 mm they register stars of almost the 19th magnitude; 3) a quartz non-slit spectrograph to be used for photographing the spectra of the solar corona and the chromosphere during a complete solar eclipse as well as the spectra of stars and comets at night; 4) a star photo-electrical polarimeter representing a combination of an analyzer of light and a star electrophotometer. - A group of scientific workers and engineers consisting of B. Ye. Paton, G.S. Voloshkevich, I.G. Guzenko, I.D. Davydenko and V.G. Radchenko was honored with the Lenin prize for the electric slag welding which they created and introduced in heavy equipment plants. Electric slag welding facilitates the manufacture of large parts without regard to size and weight. A description of the method follows. The Academician Andrey Nikolayevich Tupolev was awarded the Lenin prize for the building of the jet passenger plane TU-104 whose cruising speed is 800 km per hour and ceiling is over 10 km. It is furnished with two turbo-jet engines each consisting of a gas turbine and a compressor. The rated capacity of the gas turbines exceeds

Card 3/4

SHEPEL', V.V. (Moscow)

Lenin prizes of 1958. Fiz. v shkole 12 no.4:8-14 Jl-Aug '58.
(MIRA 11:?)

(Physics) (Lenin Prizes)

CEVORKYAN, Ruben Georgiyevich; SHEPEL', Vladimir Vladimirovich;
BOGUSLAVSKAYA, N.A., red.; LIPKINA, T.G., red.izd-va; TITOVA,
L.L., tekhn.red.

[General physics] Kurs obshchei fiziki. Moskva, Gos.izd-vo
"Sovetskaiia nauka," 1959. 517 p. (MIRA 13:3)
(Physics--Handbooks, manuals, etc.)

PUTILOV, Konstantin Anatol'yevich, prof.. Prinimal uchastiye: SHPEL,
V.V.. ZILABOTINSKIY, Ye.Ye., red.; MURASHOVA, N.Ya., tekhn.red.

[Textbook of physics] Kurs fiziki. Izd.9., perer. Moskva,
Gos.izd-vo fiziko-matem.lit-ry. Vol.1. [Mechanics. Acoustics.
Molecular physics. Thermodynamics] Mekhanika. Akustika.
Molekularnaia fizika. Termodinamika. 1959. 560 p.

(MIR 13:1)

(Physics)